

---

STATUS OF THE JEFF NUCLEAR DATA LIBRARY

A. J. Koning<sup>1</sup>, R. Jacqmin<sup>2</sup>, R. Forrest<sup>3</sup>, O. Bersillon<sup>4</sup>, P. Rullhusen<sup>5</sup>, A. Nouri<sup>6</sup>,  
M. Kellett<sup>2</sup>

<sup>1</sup> *NRG Petten*

<sup>2</sup> *CEA Cadarache*

<sup>3</sup> *UKAEA Culham*

<sup>4</sup> *CEA Bruyeres-le-Chatel*

<sup>5</sup> *JRC-IRMM Geel*

<sup>6</sup> *NEA Data Bank*

---

The status of the Joint Evaluated Fission and Fusion file (JEFF) is described. The next version of the library, JEFF-3.1, comprises a significant update of actinide evaluations, evaluations emerging from European nuclear data projects, the activation library JEFF-3/A, the decay data and fission yield library, and fusion-related data files from the EFF project. In particular, there are substantial revisions in the following cross section evaluations: U-238, Pu-240, Am-241, Cr-52, Rh-103, I-129, Bi-209, Ca, Sc, Ti, Fe, Ge and Pb isotopes. These revisions were motivated by the availability of new measurements, modelling capabilities, or trends from integral experiments. Various pre-release validation efforts are underway, mainly for criticality and shielding of thermal and fast systems. This JEFF-3.1 library is expected to provide improved performances with respect to JEF-2.2 for a variety of scientific and industrial applications.